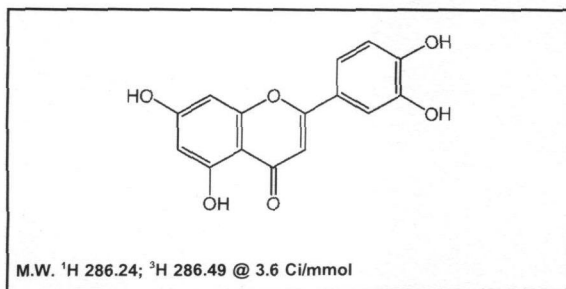




Product Data Sheet

MT-1917

Luteolin, [³H]-



Lot #: 746-072-0036-A-20090512-JP

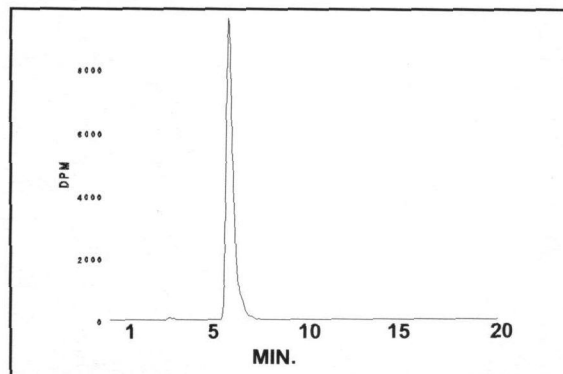
Specific Activity: 3.6 Ci/mmol

Concentration: 1.0 mCi/ml; 79.58 µg/ml

Packaged in: Ethanol solution under argon

Date of Analysis: May 13, 2009

Radiochemical Purity: 99.1%



HPLC ANALYSIS LOT 746-072-0036-A-20090512-JP
File Name: intc2744 Date and Time: 5/13/2009 9:31:52 AM
Unit 12 Radio

Peak #	Area %	Time	Area
1	0.29	3.22670	71.28236
2	0.13	3.34500	33.25207
3	99.19	6.19670	24588.36842
4	0.23	6.78670	57.53141
5	0.11	7.34670	27.62128
6	0.05	7.74830	11.27827
Totals	100.00		24789.33381

Stability and Storage Recommendation: The rate of decomposition is approximately 0.5-1%/month for the first six months after purification when stored at -20°C.

Product Warranty: Stated on the reverse side of this Product Data Sheet.

Caution: Not For Use In Humans Or Clinical Diagnosis. This product is intended for investigational or manufacturing use only. It is pharmaceutically unrefined and is not intended for use in humans. Responsibility for its use in humans, as a diagnostic reagent, and compliance with federal laws rests solely with the purchaser.

MT-1917

Luteolin, [³H]-

Lot 746-072-0036-A-20090512-JP

A) All chromatograms were run using the HPLC method described on the Product Data Sheet.

Concentrations and volumes:

Standard solution concentration was 0.5 mg/mL.

Luteolin, [³H]- concentration was 0.1 mCi/mL.

Volume of standard alone injection was 15.0 µL.

Volume of **Luteolin, [³H]-** alone injection was 1.5 µL.

Co-injection solution consisted of 1.5 µL **Luteolin, [³H]-** + 15.0 µL standard.

Volume of co-injection was 16.5 µL.

Volume of blank injection was 1.5 µL.

B) Mass spectrometry – Positive mode

C) NMR

MT-1917
Luteolin, [3H]-
Lot 746-072-0036-A-20090512-JP

Chromatogram Info:

File Name	: L:\intc2744	File Created	: 4/15/2014 12:48:44 PM
Origin	: Acquired, Acquisition started 5/13/2009 9:11:54 AM	Acquired Date	: 5/13/2009 9:31:52 AM
Project	: Work1	By	: Administrator

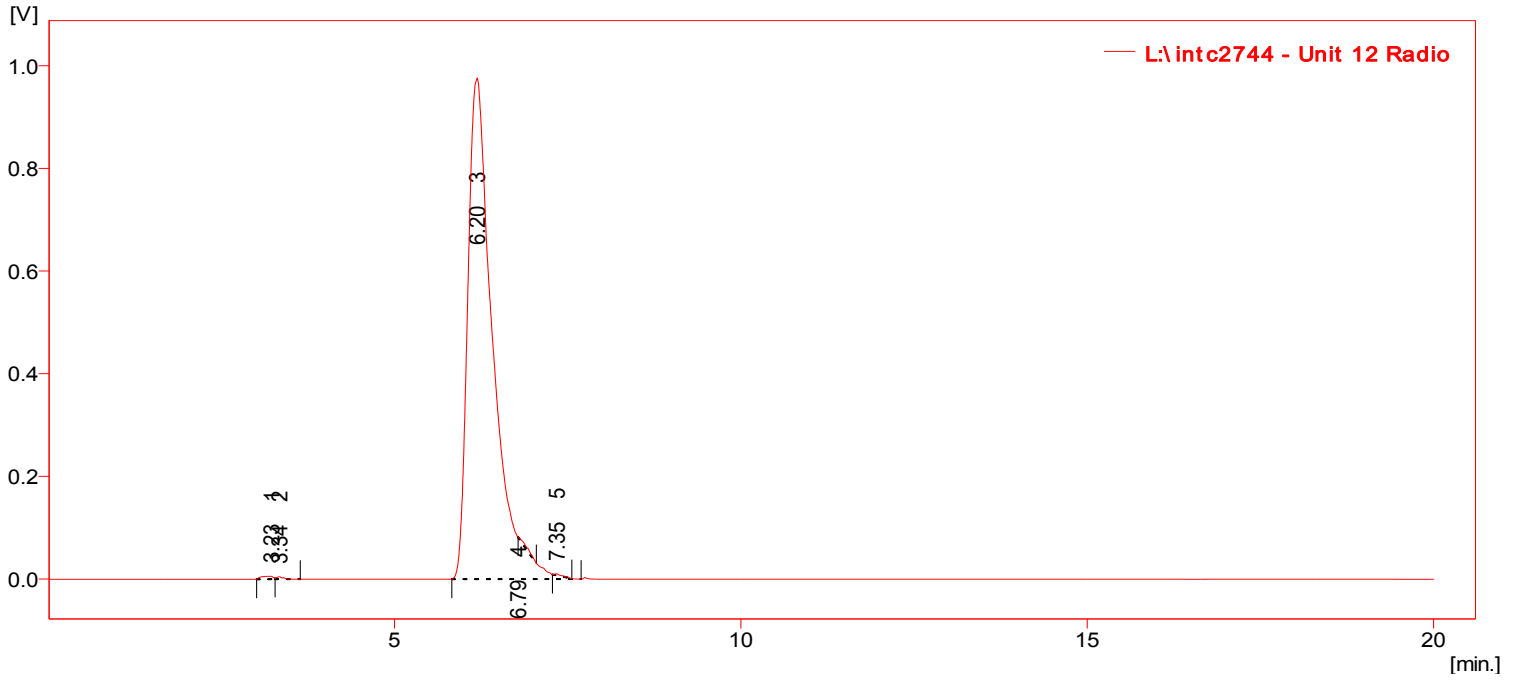
Sample Info:

Sample ID	:	Amount	: 0
Sample	:	ISTD Amount	: 0
Inj. Volume [mL]	: 0	Dilution	: 1

Method : Unit12_20_min_run By : Administrator

Description : Radiochemical trace of 3H material alone

Created : 8/8/2007 9:24 AM Modified : 4/15/2014 2:00 PM



Result Table (Uncal - L:\intc2744 - Unit 12 Radio)

	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]	Efficiency [th.pl]	Eff/I [t.p./m]	Resolution [-]	Symmetry/Tailing [-]	Response Factor
1		3.23	70.876	5.76	0.29	0.6	0.22	2396	47920		0.62	
2		3.34	33.377	4.98	0.13	0.5	0.09	3906	78119	0.45	1.70	
3		6.20	24578.968	976.76	99.23	98.5	0.36	0	0	7.48	2.52	
4		6.79	59.758	0.36	0.24	0.0	0.01	13649	272977	1.88	19.75	
5		7.35	27.862	3.58	0.11	0.4	0.09	12731	254613	6.57	2.03	
	Total		24770.841	991.44	100.00	100.0						

MT-1917
Luteolin, [3H]-
Lot 746-072-0036-A-20090512-JP

Chromatogram Info:

File Name	: L:\intc2744	File Created	: 4/15/2014 12:48:44 PM
Origin	: Acquired, Acquisition started 5/13/2009 9:11:54 AM	Acquired Date	: 5/13/2009 9:31:52 AM
Project	: Work1	By	: Administrator

Sample Info:

Sample ID	:	Amount	: 0
Sample	:	ISTD Amount	: 0
Inj. Volume [mL]	: 0	Dilution	: 1

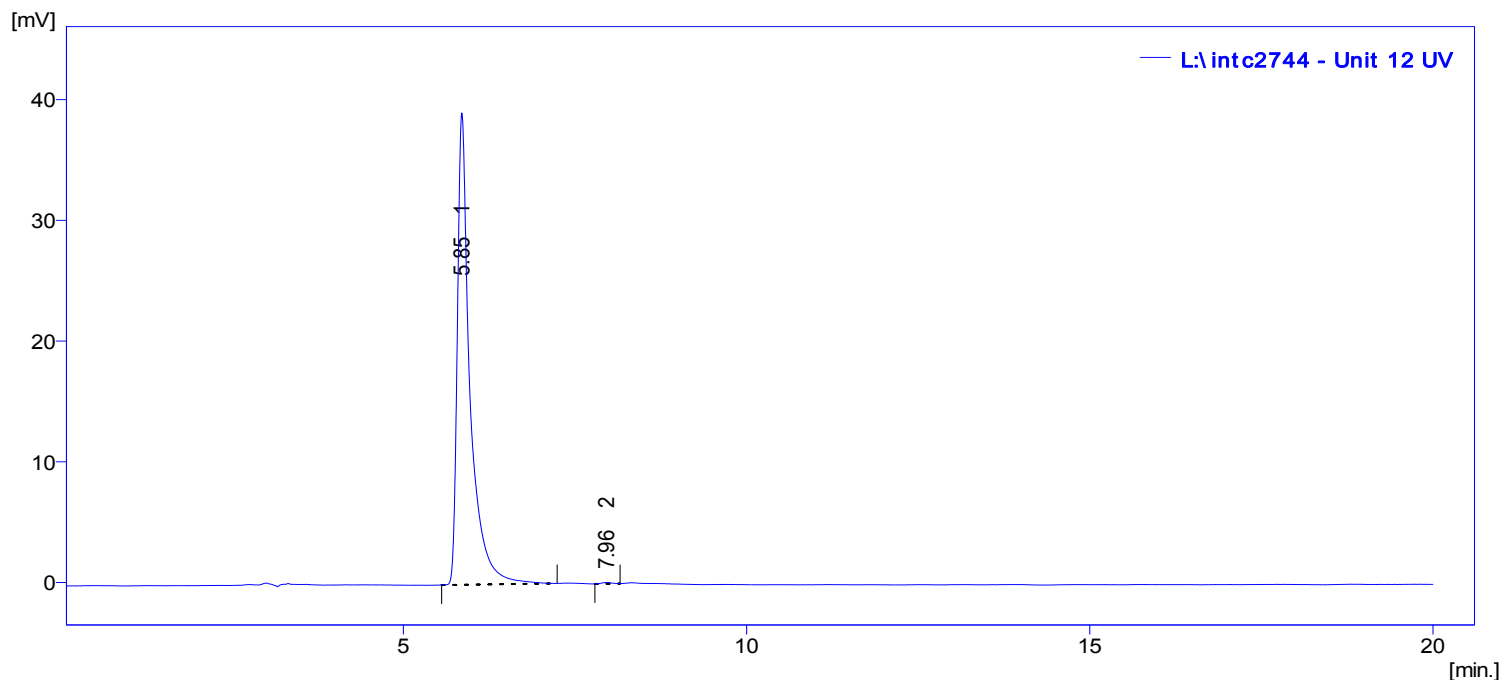
Method : Unit12_20_min_run

By : Administrator

Description : UV trace of 3H material alone

Created : 8/8/2007 9:24 AM

Modified : 4/15/2014 2:01 PM



Result Table (Uncal - L:\intc2744 - Unit 12 UV)

Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]	Efficiency [th.pl]	Eff/I [t.p./m]	Resolution [-]	Symmetry/Tailing [-]	Response Factor
1	5.85	502.646	39.08	99.78	99.7	0.17	1311	26223		1.99	
2	7.96	1.122	0.11	0.22	0.3	0.16	13694	273886	7.53	1.04	
Total		503.768	39.20	100.00	100.0						

MT-1917
Luteolin, [3H]-
Lot 746-072-0036-A-20090512-JP

Chromatogram Info:

File Name	: L:\intc2747	File Created	: 4/15/2014 12:48:44 PM
Origin	: Acquired, Acquisition started 5/13/2009 10:21:54 AM	Acquired Date	: 5/13/2009 10:41:53 AM
Project	: Work1	By	: Administrator

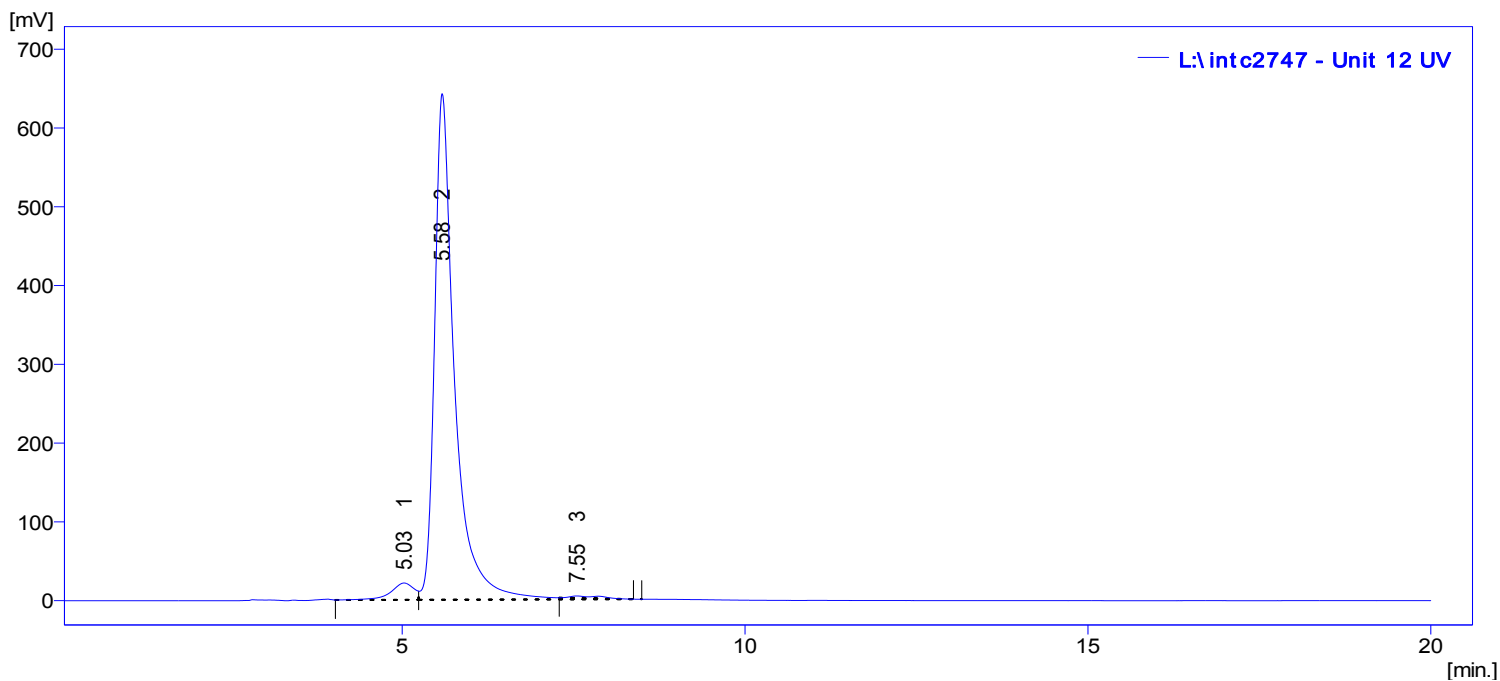
Sample Info:

Sample ID	:	Amount	: 0
Sample	:	ISTD Amount	: 0
Inj. Volume [mL]	: 0	Dilution	: 1

Method : Unit12_20_min_run By : Administrator

Description : UV trace of standard material alone

Created : 8/8/2007 9:24 AM Modified : 4/15/2014 2:02 PM



Result Table (Uncal - L:\intc2747 - Unit 12 UV)

Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]	Efficiency [th.pl]	Eff/I [t.p./m]	Resolution [-]	Symmetry/Tailing [-]	Response Factor
1	5.03	497.862	21.35	3.63	3.2	0.40	729	14570		0.68	
2	5.58	13116.161	642.45	95.70	96.4	0.28	0	0	0.98	4.74	
3	7.55	90.917	2.73	0.66	0.4	0.53	1517	30345	2.87	2.01	
Total		13704.940	666.54	100.00	100.0						

MT-1917
Luteolin, [3H]-
Lot 746-072-0036-A-20090512-JP

Chromatogram Info:

File Name	: L:\intc2746	File Created	: 4/15/2014 12:48:44 PM
Origin	: Acquired, Acquisition started 5/13/2009 9:48:57 AM	Acquired Date	: 5/13/2009 10:08:56 AM
Project	: Work1	By	: Administrator

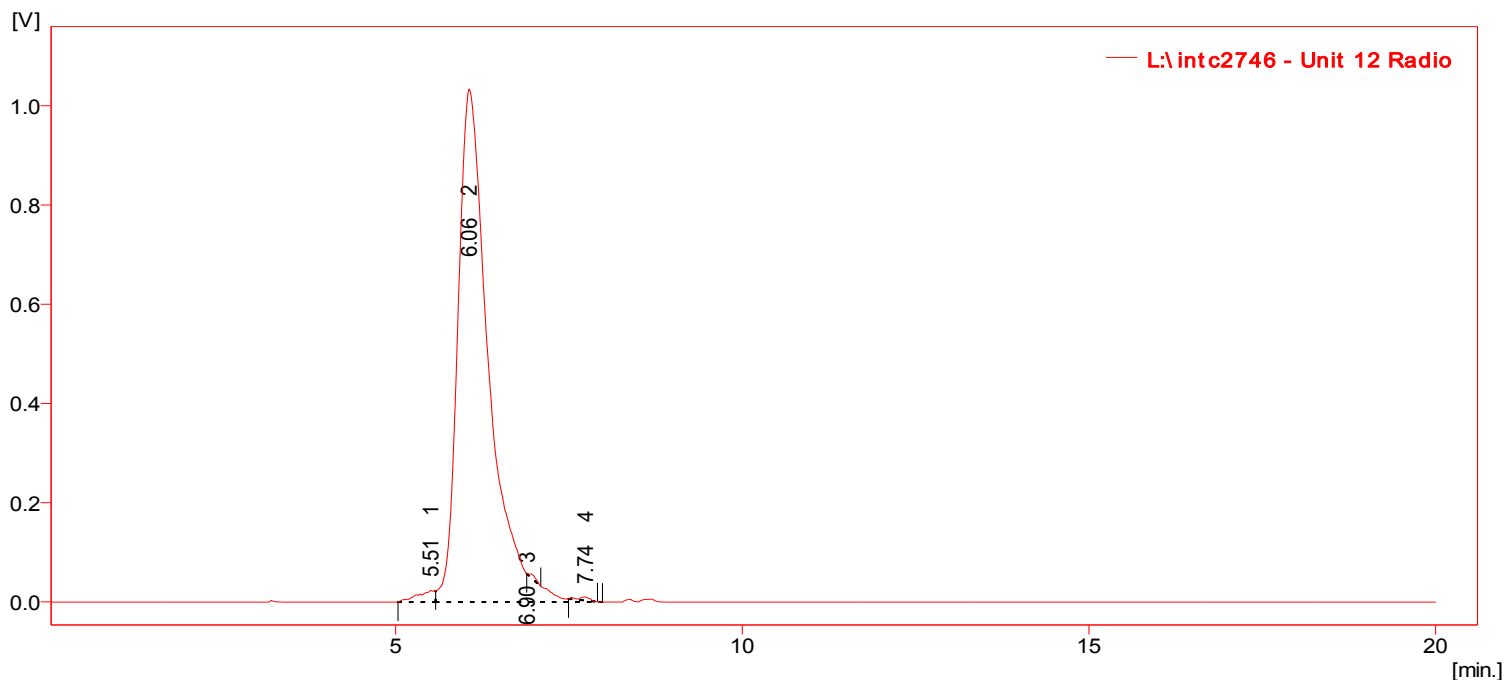
Sample Info:

Sample ID	:	Amount	: 0
Sample	:	ISTD Amount	: 0
Inj. Volume [mL]	: 0	Dilution	: 1

Method : Unit12_20_min_run By : Administrator

Description : Radiochemical trace of 3H material co-injected with standard

Created : 8/8/2007 9:24 AM Modified : 4/15/2014 2:03 PM



Result Table (Uncal - L:\intc2746 - Unit 12 Radio)

Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]	Efficiency [th.pl]	Eff/I [t.p./m]	Resolution [-]	Symmetry/Tailing [-]	Response Factor
1	5.51	413.673	23.36	1.27	2.2	0.32	1726	34512		0.58	
2	6.06	32129.860	1033.88	98.30	97.0	0.44	0	0	0.86	2.49	
3	6.90	58.882	0.56	0.18	0.1	0.05	30206	604123	2.03	15.00	
4	7.74	84.267	7.53	0.26	0.7	0.17	7361	147226	4.59	0.76	
Total		32686.682	1065.33	100.00	100.0						

MT-1917
Luteolin, [3H]-
Lot 746-072-0036-A-20090512-JP

Chromatogram Info:

File Name	: L:\intc2746	File Created	: 4/15/2014 12:48:44 PM
Origin	: Acquired, Acquisition started 5/13/2009 9:48:57 AM	Acquired Date	: 5/13/2009 10:08:56 AM
Project	: Work1	By	: Administrator

Sample Info:

Sample ID	:	Amount	: 0
Sample	:	ISTD Amount	: 0
Inj. Volume [mL]	: 0	Dilution	: 1

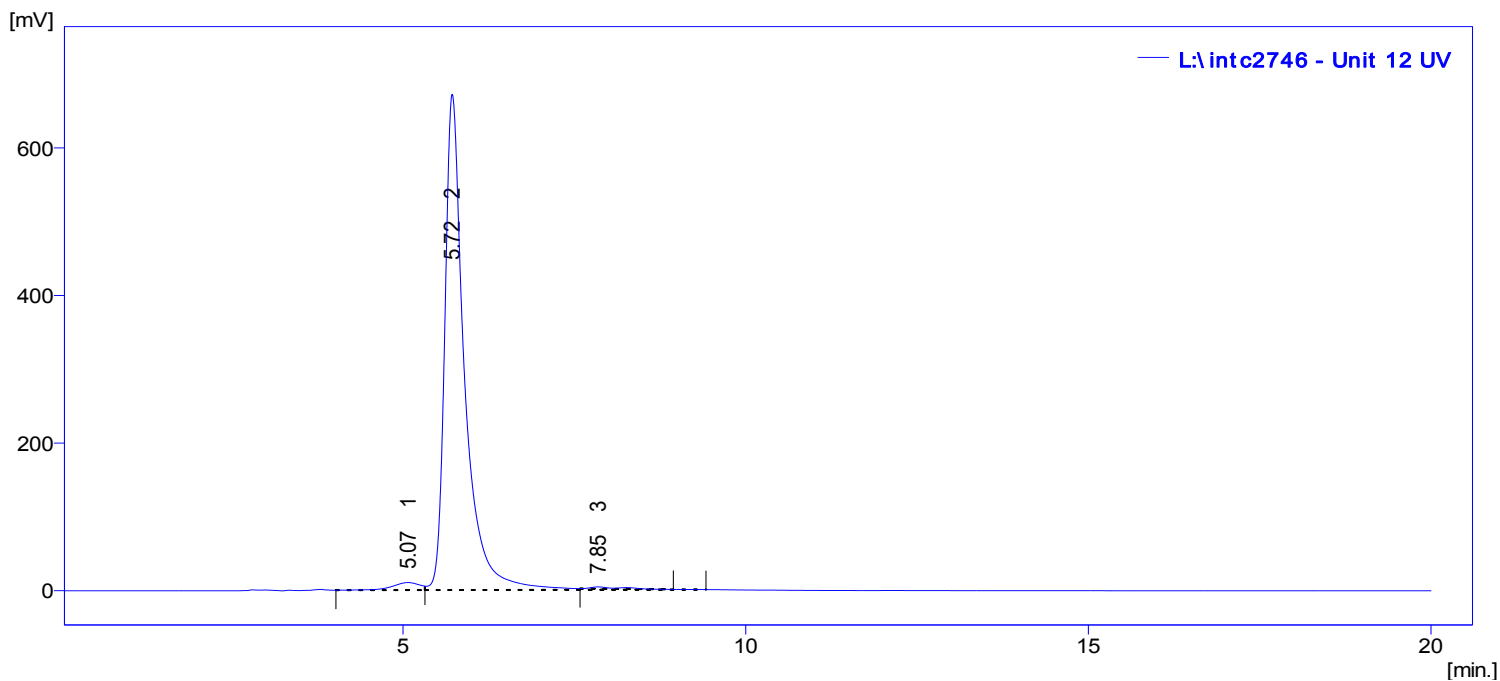
Method : Unit12_20_min_run

By : Administrator

Description : UV trace of 3H material co-injected with standard

Created : 8/8/2007 9:24 AM

Modified : 4/15/2014 2:05 PM



Result Table (Uncal - L:\intc2746 - Unit 12 UV)

Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]	Efficiency [th.pl]	Eff/I [t.p./m]	Resolution [-]	Symmetry/Tailing [-]	Response Factor
1	5.07	283.999	10.25	2.04	1.5	0.48	587	11741		0.69	
2	5.72	13580.777	671.91	97.38	98.1	0.27	0	0	1.02	5.16	
3	7.85	81.237	2.56	0.58	0.4	0.27	1050	21008	4.65	2.28	
Total		13946.012	684.73	100.00	100.0						

MT-1917
Luteolin, [3H]-
Lot 746-072-0036-A-20090512-JP

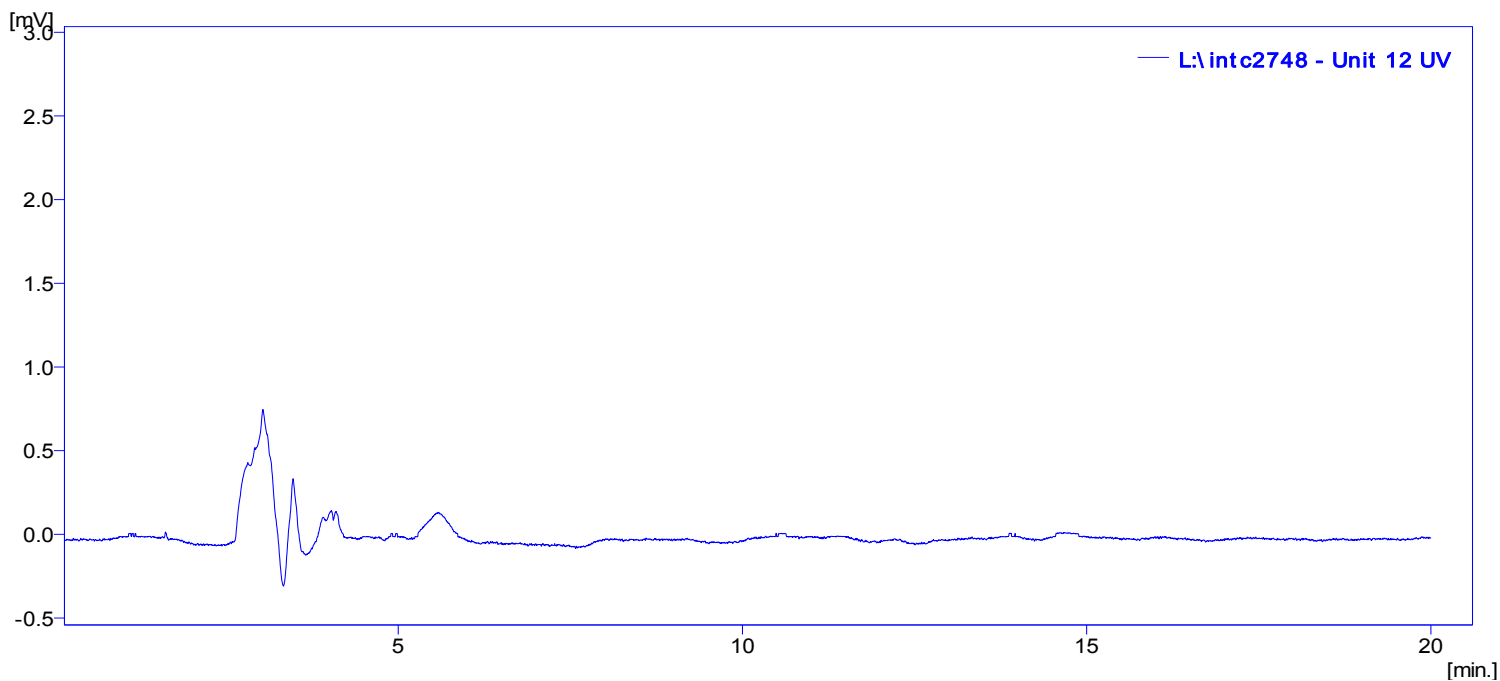
Chromatogram Info:

File Name	: L:\intc2748	File Created	: 4/15/2014 12:48:44 PM
Origin	: Acquired, Acquisition started 5/13/2009 10:43:18 AM	Acquired Date	: 5/13/2009 11:03:17 AM
Project	: Work1	By	: Administrator

Sample Info:

Sample ID	:	Amount	: 0
Sample	:	ISTD Amount	: 0
Inj. Volume [mL]	: 0	Dilution	: 1

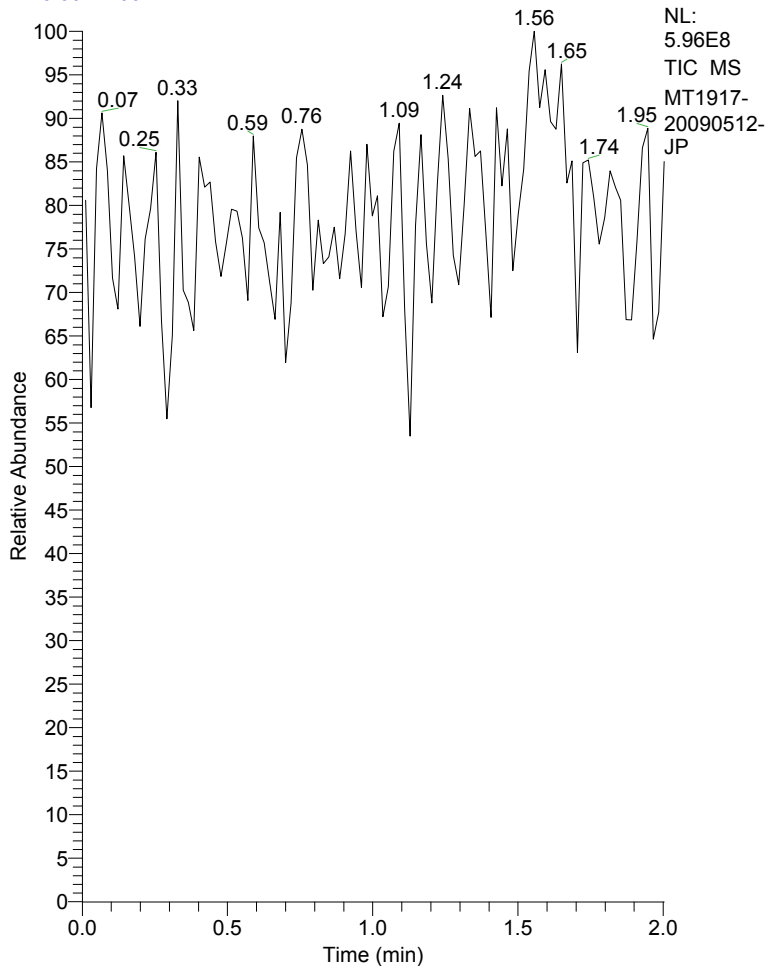
Method	: Unit12_20_min_run	By	: Administrator
Description	: UV trace of blank injection		
Created	: 8/8/2007 9:24 AM	Modified	: 4/15/2014 2:08 PM



Result Table (Uncal - L:\intc2748 - Unit 12 UV)

Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]	Efficiency [th.pl]	Eff/l [t.p./m]	Resolution [-]	Symmetry/Tailing [-]	Response Factor
No peak to report											

RT: 0.00 - 2.00



MT1917-20090512-JP#1-108 RT: 0.01-2.00

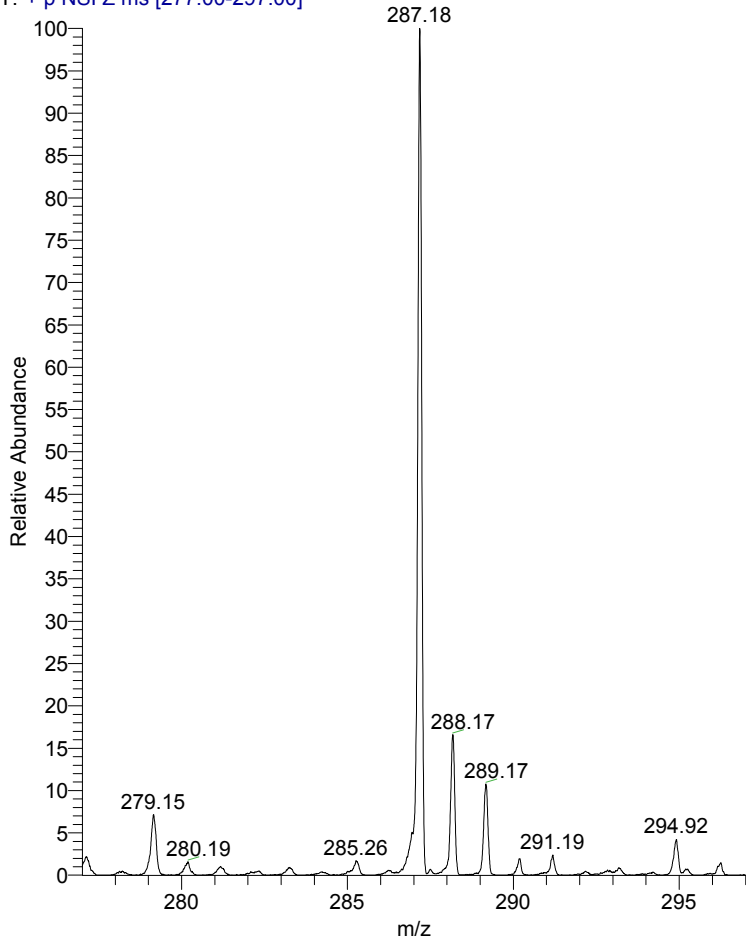
T: + p NSI Z ms [277.00-297.00]

m/z = 286.22-291.67

m/z	Intensity	Relative
287.15	274242048.0	100.00
288.15	47656072.0	17.38
289.16	31166942.0	11.36
290.16	5613860.5	2.05
291.12	7703518.5	2.81

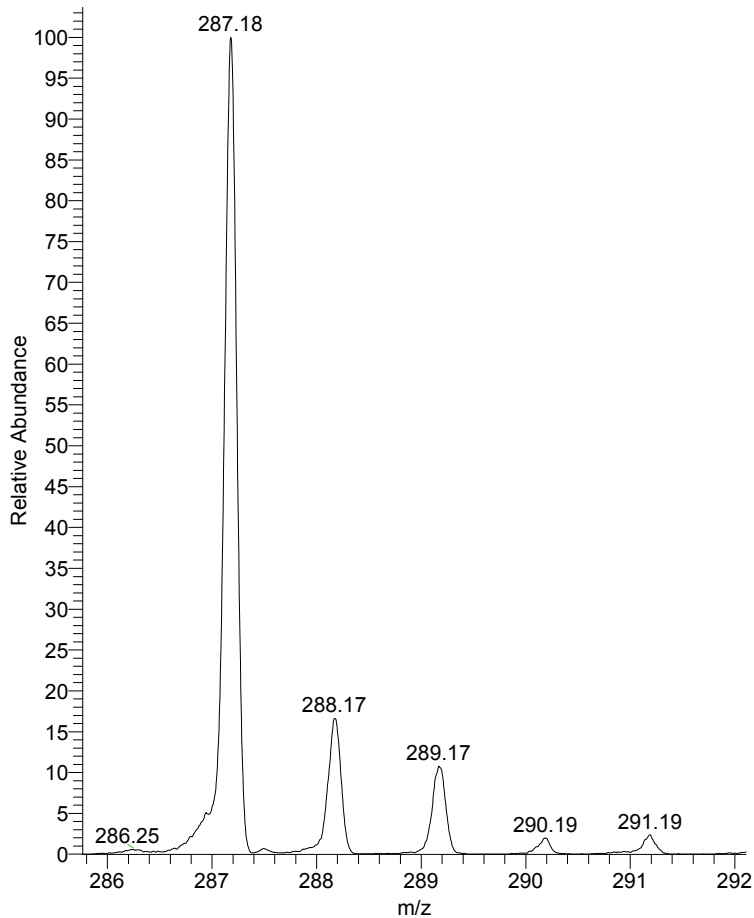
MT1917-20090512-JP #1-108 RT: 0.01-2.00 AV: 108 NL: 9.07E6

T: + p NSI Z ms [277.00-297.00]



MT1917-20090512-JP #1-108 RT: 0.01-2.00 AV: 108 NL: 9.07E6

T: + p NSI Z ms [277.00-297.00]



MT1917 3H NMR in MeOD
Batch 20090512-JP

